Remarks

Upon entry of the instant Preliminary Amendment, claims 1-26 are pending. Claims 2-8, 10-16, 18-22, 24-26 have been amended as to form to eliminate multiple dependencies and preferred embodiments. The amendments are without prejudice to the filing of claims directed to such canceled subject matter in this or a subsequent application. No new matter has been added.

In view of the foregoing amendments, Applicants aver that the instant claims are now in better condition for examination on the merits. Early favorable action is respectfully solicited. If minor amendments will further prosecution, Applicants request that the Examiner contact the undersigned representative.

Respectfully submitted

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Marked Up Claims

- 2. (amended) A method according to claim I wherein component (b) is selected from the group consisting of $C_{8:20}$ alkyl mercaptans, $C_{5:7}$ cycloalkyl mercaptans, aromatic mercaptans, $C_{8:20}$ alkyl sulphones, $C_{5:7}$ cycloalkyl mercaptans and aromatic sulphones, preferably either dodecyl mercaptan or-dodecyl sulphone.
- 3. (amended) A method according to claim 1 or claim 2 wherein the oligomer further comprises component (c) which is a compound of formula (1)

$$CH_2=CR-Q$$
 (1),

wherein

Q is -C(O)-Z-A-, $-CH_2$ -N⁺R₁R₃CH₂CR=CH₂ X or $-CH_2$ NR₁CH₂CR=CH₂,

Z is -O- or -NH-,

A is $-C_nH_{2n}-B$ -,

n is an integer from 1 to 4,

B is $-NR_1R_2$ or $-N^+R_1R_2R_3$ X⁻,

R is -H or -CH₃,

R₁ is C₁₋₄ alkyl,

 R_2 is C_{1-4} alkyl,

R₃ is -H or C₁₋₈ alkyl, C₅₋₇ cycloalkyl or benzyl, and

- X is an anion, preferably halide, most preferably chloride.
 - 4. (amended) A method according to any of claims 1 to 3claim 1 wherein component (c) is dimethylaminoethyl (meth)acrylate, acid addition salt or quaternary ammonium salt thereof, preferably-dimethylaminoethyl (meth)acrylate, methyl chloride quaternary ammonium salt or dimethylaminoethyl (meth)acrylate or benzyl chloride quaternary ammonium salt.
 - 5. (amended) A method according to any of claims 1 to 4claim 1 wherein the oligomer comprises at least 85 mole % of component (a), preferably at least 90 mole %.

- (amended) A method according to any of claims 1 to 5claim 1 wherein the oligomer comprises component (b) in an amount up to 10 mole %, preferably 2.5 — 5 mole %.
- 7. (amended) A method according to any of claims 1 to 6claim 1 wherein the oligomer comprises component (c) in an amount up to 10 mole %, preferably 2.5—5 mole %.
- 8. (amended) A method according to any of elaims 1 to 7claim 1 wherein the oligomer further comprises component (d) which is an ethylenically unsaturated carboxylic acid or an ethylenically unsaturated carboxylic anhydride in an amount up to 10 mole %.
- 10. (amended) A method according to any of claims 1 to 9claim 1 wherein the matrix of the polymeric particles are formed from a monomer or a monomer blend comprising monomers selected from the group consisting of styrene, C₁₋₁₂ alkyl (meth)acrylate, vinyl acetate and acrylonitrile.
- 11. (amended) A method according to any of claims 1 to 10claim 1 wherein the matrix of the polymer particles is formed from 25-75 weight %, preferably 35-65 weight %, most preferably 50 weight %, monomer or monomer blend selected from any of styrene, acrylonitrile, vinyl acetate and C₁₋₂ alkyl (meth)acrylate, preferably styrene, acrylonitrile, methyl methacrylate, methyl acrylate, ethylmethacrylate, vinyl acetate and 25-75 weight %, preferably 35-65 weight %, most preferably 50 weight %, monomer or monomer blend selected from any of C₃₋₈ alkyl (meth)acrylate, preferably butylacrylate, n hexyl acrylate, n octyl acrylate and 2 ethylhexyl acrylate.
- 12. (amended) A method according to any of claims 1 to 11claim 1 wherein the matrix of the polymer particles is formed from 25-75 weight %, preferably 35-65 weight %, most preferably 50 weight % styrene and 25-75 weight %, preferably 35-65 weight %, most preferably 50 weight %-2-ethylhexyl acrylate.
- 13. (amended) A method according to any of claims 1 to 12claim 1 wherein the polymer particles are formed from a monomer blend comprising cross linking monomer.

- 14. (amended) A method according to any of elaims 1 to 13claim 1 wherein the polymer particles have a minimum film forming temperature of between -5 and 55°C, preferably between 25 and 45°C, most preferably about 35°C.
- 15. (amended) A method according to any of claims 1 to 14claim 1 wherein the polymer particles have a particle size in the range 80-200nm, preferably 100-120nm.
- 16. (amended) A method according to any of claims 1 to 15claim 1 wherein the composition (A) comprises 0.5 to 10 weight %, preferably 2.5 to 5 weight %, polymer particles and 90 to 99.5 weight %, preferably 95 to 97.5 weight %, starch based on total dry weight of polymer particles and starch.
- 18. (amended) A method according to claim 17 wherein the composition comprises an aqueous dispersion of polymeric particles of particle size up to 1 micron, preferably 80-200nm, wherein the polymeric particles comprise a water insoluble polymer matrix, preferably formed from styrene and 2-ethylhexyl aerylate, and the oligomer is located at the surface of the polymer particles.
- 19. (amended) A method according to claim 17 or elaim 18-wherein the oligomer is formed from a monomer blend comprising.
 - (a) 85-95 mole % (meth)acrylamide.
 - (b) 2.5-10 mole % of an organic mercaptan or an organic sulphone, preferably dodecyl-mercaptan or dodecyl sulphone,
 - (c)2.5-10 mole % of an ethylenically unsaturated monomer comprising either a tertiary amine group or a quaternary ammonium group, preferably dimethylaminoethylmethacrylate, and
 - (d) 0-10 mole% other ethylenically unsaturated monomers, preferably acrylic acid or maleicanhydride.
- 20. (amended) A method according to any of claims 17 to 19claim 17 wherein the composition comprises 0.5 to 10 weight %, preferably 2.5 to 5 weight %, polymer particles and 90 to 99.5 weight %, preferably 95 to 97.5 weight %, starch based on total dry weight of polymer particles and starch.

- 21. (amended) A method according to any of claims 17 to 20claim 17 wherein the composition comprises optical brightening aids.
- 22. (amended) A composition comprising an aqueous dispersion of polymeric particles of particle size up to 1 micron, wherein the polymeric particles comprise a water insoluble polymer matrix, preferably-formed from styrene and 2 ethylhexyl acrylate, characterized characterized in that an oligomer formed from a monomer blend comprising,
 - (a) 85-95 mole % (meth)acrylamide and
 - (b) 2.5-10 mole % of an organic mercaptan or an organic sulphone, and
 - (c)2.5-10 mole % of an ethylenically unsaturated monomer comprising either a tertiary amine group or a quaternary ammonium group, and
 - (d) 0-10 mole% other ethylenically unsaturated monomers, preferably acrylic acid or maleic anhydride,
- is located at the surface of the polymer particles.
- 24. (amended) A composition according to claim 22-or elaim 23, wherein component (b) is dodecyl mercaptan or dodecyl sulphone, present in an amount of 2.5-5 mole % based on total oligomer.
- 25. (amended) A composition according to any of claims 22 to 24claim 22, wherein component (c) is dimethylaminoethyl methacrylate, present in an amount of 2.5-5 mole % based on total oligomer.
- 26. (amended) A composition according to any of claims 22 to 25claim 22, wherein component (d) is acrylic acid or maleic anhydride, present in an amount of 2.5-5 mole % based on total oligomer.